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Sub B1
~~X¹ and X² are each oxygen or sulfur;~~

~~W is $\{ \text{C(R}^8\text{)}-\text{X}^5, \text{C(R}^8\text{)}(\text{X}^{14}\text{R}^6)(\text{X}^{14}\text{R}^7), \text{C(R}^8\text{)}=\text{C(R}^9\text{)}-\text{CN}, \text{C(R}^8\text{)}=\text{C(R}^9\text{)}-\text{CO-R}^{10}, \text{CH(R}^8\text{)}-\text{CH(R}^9\text{)}-\text{CO-R}^{10}, \text{C(R}^8\text{)}=\text{C(R}^9\text{)}-\text{CH}_2-\text{CO-R}^{10}, \text{C(R}^8\text{)}=\text{C(R}^9\text{)}-\text{C(R}^{11}\text{)}=\text{C(R}^{12}\text{)}-\text{CO-R}^{10} \text{ or } \text{C(R}^8\text{)}=\text{C(R}^9\text{)}-\text{CH}_2-\text{CH(R}^{13}\text{)}-\text{CO-R}^{10} \text{ where}$~~

~~{X¹ and X² are each oxygen or sulfur;}~~

~~{X⁵ is oxygen, sulfur or a radical NR¹⁴;~~

~~{R¹⁴ is hydrogen, hydroxyl, C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₃-C₆-cycloalkyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-alkoxy, C₃-C₆-alkenyloxy, C₃-C₆-alkynyloxy, C₅-C₇-cycloalkoxy, C₅-C₇-cycloalkenyloxy, C₁-C₆-haloalkoxy, C₃-C₆-haloalkenyloxy, hydroxy-C₁-C₆-alkoxy, cyano-C₁-C₆-alkoxy, C₃-C₇-cycloalkyl-C₁-C₆-alkoxy, C₁-C₆-alkoxy-C₁-C₆-alkoxy, C₁-C₆-alkoxy-C₃-C₆-alkenyloxy, C₁-C₆-alkylcarbonyloxy, C₁-C₆-haloalkylcarbonyloxy, C₁-C₆-alkylcarbamyloxy, C₁-C₆-haloalkylcarbamyloxy, C₁-C₆-alkoxycarbonyl-C₂-C₆-alkoxy, C₁-C₆-alkylthio-C₁-C₆-alkoxy, di-C₁-C₆-alkylamino-C₁-C₆-alkoxy, phenyl which may carry from one to three of the following substituents: cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl, phenyl-C₁-C₆-alkoxy, phenyl-C₃-C₆-alkenyloxy or phenyl-C₃-C₆-alkynyloxy, where one or two methylene groups of each of the carbon chains may be replaced with -O-, -S- or -N(C₁-C₆-alkyl)- and each phenyl ring may carry from one to three of the following substituents: cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy, C₁-C₆-alkoxycarbonyl, heterocyclyl, heterocyclyl-C₁-C₆-alkoxy, heterocyclyl-C₃-C₆-alkenyloxy or heterocyclyl-C₃-C₆-alkynyloxy, where one or two methylene groups of each of the carbon chains may be replaced with -O-, -S- or -N(C₁-C₆-alkyl)- and the heterocyclyl ring may be from three-membered to sevenmembered and saturated, unsaturated or aromatic and may contain from one to four hetero atoms selected from a group consisting of one or two oxygen or sulfur atoms and up to four nitrogen atoms and furthermore may carry from one to three of the following substituents: cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy or C₁-C₆-alkoxycarbonyl,}~~

~~{or -N(R¹⁵)R¹⁶, where}~~

~~{R¹⁵ and R¹⁶ are each hydrogen, C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₃-C₆-cycloalkyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-alkylcarbonyl, C₁-C₆-alkoxycarbonyl, C₁-C₆-alkoxy-carbonyl-C₁-C₆-alkyl or C₁-C₆-alkoxycarbonyl-C₂-C₆-alkenyl, where the alkenyl chain may additionally carry from one to three of the following radicals: halogen and cyano or phenyl which may~~

Sub B1
carry from one to three of the following substituents: cyano, nitro, halogen, ~~C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₃-C₆-alkenyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl, or~~

~~[R¹⁵ and R¹⁶ together with the common nitrogen atom form a saturated or unsaturated 4-membered to 7-membered heterocyclic structure, where one ring member may be replaced with -O-, -S-, -N=, -NH- or -N(C₁-C₆-alkyl)-;]~~

~~[R⁶ and R⁷ are each C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, or]~~

~~[R⁶ and R⁷ together form a saturated or unsaturated, two-membered to four-membered carbon chain which may carry an oxo substituent, where one member of this chain may be replaced with an oxygen, sulfur or nitrogen atom which is not adjacent to X³ and X⁴, and where the chain may carry from one to three of the following radicals: cyano, nitro, amino, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-alkoxy, C₂-C₆-alkenyloxy, C₂-C₆-alkynyloxy, C₁-C₆-haloalkyl, cyano-C₁-C₆-alkyl, hydroxy-C₁-C₆-alkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₃-C₆-alkenyloxy-C₁-C₆-alkyl, C₃-C₆-alkynyloxy-C₁-C₆-alkyl, C₃-C₇-cycloalkyl, C₃-C₇-cycloalkoxy, carboxyl, C₁-C₆-alkoxycarbonyl, C₁-C₆-alkylcarbonyloxy-C₁-C₆-alkyl and phenyl which may carry from one to three of the following radicals: halogen, cyano, nitro, amino, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl, and where the chain may furthermore be substituted by a fused-on or spiral-bonded three-membered to seven-membered ring, and one or two carbon atoms of this ring may be replaced with oxygen, sulfur and unsubstituted or C₁-C₆-alkyl-substituted nitrogen atoms and this ring may carry one or two of the following substituents: cyano, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-alkoxy, C₁-C₆-cyanoalkyl, C₁-C₆-haloalkyl and C₁-C₆-alkoxycarbonyl;]~~

R⁸ is hydrogen, cyano, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₁-C₆-haloalkyl, C₃-C₇-cycloalkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl or C₁-C₆-alkoxycarbonyl;

R⁹ and R¹² are each hydrogen, cyano, halogen, C₁-C₆-alkyl, C₁-C₆-alkoxy, halo-C₁-C₆-alkyl, C₁-C₆-alkylcarbonyl or C₁-C₆-alkoxycarbonyl;

R¹⁰ is hydrogen, O-R¹⁷, S-R¹⁷, C₁-C₆-alkyl which may furthermore carry one or two C₁-C₆-alkoxy substituents, or ~~[R¹⁰ is]~~

C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₁-C₆-haloalkyl, C₃-C₇-cycloalkyl, C₁-C₆-alkylthio-C₁-C₆-alkyl, C₁-C₆-alkyliminoxy, -N(R¹⁵)R¹⁶ or

phenyl which ~~{may carry}~~ is unsubstituted or carries from one to three of the following substituents: cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy [or] and C₁-C₆-alkoxycarbonyl,

R¹⁵ and R¹⁶ are each hydrogen, C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₃-C₆-cycloalkyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-alkylcarbonyl, C₁-C₆-alkoxycarbonyl, C₁-C₆-alkoxycarbonyl-C₁-C₆-alkyl or C₁-C₆-alkoxycarbonyl-C₂-C₆-alkenyl, where the alkenyl chain is unsubstituted or carries from one to three of the following radicals: halogen and cyano, or phenyl which is unsubstituted or carries from one to three of the following substituents: cyano, nitro, halogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₃-C₆-alkenyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl, or

R¹⁵ and R¹⁶ together with the common nitrogen atom form a saturated or unsaturated 4-membered to 7-membered heterocyclic structure, where one ring member is optionally replaced by -O-, -S-, -N=, -NH- or -N(C₁-C₆-alkyl)-;

R¹⁷ is hydrogen, C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₃-C₇-cycloalkyl, C₁-C₆-haloalkyl, C₃-C₆-haloalkenyl, cyano-C₁-C₆-alkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-alkylthio-C₁-C₆-alkyl, ~~{or}~~ C₁-C₆-alkyloximino-C₁-C₆-alkyl, C₁-C₆-alkylcarbonyl, C₁-C₆-alkoxycarbonyl, C₁-C₆-alkylcarbonyl-C₁-C₆-alkyl, C₁-C₆-alkoxycarbonyl-C₁-C₆-alkyl,

phenyl or phenyl-C₁-C₆-alkyl, where each of the phenyl radicals ~~{in turn may carry}~~ is unsubstituted or carries from one to three of the following substituents: cyano, nitro, halogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₃-C₆-alkenyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl;

R¹¹ is hydrogen, cyano, halogen, C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-alkylcarbonyl, C₁-C₆-alkoxycarbonyl,

-NR¹⁸R¹⁹, where R¹⁸ and R¹⁹ have the same meanings as R¹⁵ and R¹⁶, or

phenyl which ~~{may furthermore carry}~~ is unsubstituted or carries from one to three of the following substituents:

- cyano, nitro, halogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₃-C₆-alkenyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl;
- R¹³ is hydrogen, cyano, C₁-C₆-alkyl or C₁-C₆-alkoxycarbonyl; or
- R⁹ and R¹⁰ together form a two-membered to five-membered carbon chain in which one carbon atom may be replaced with oxygen, sulfur or unsubstituted or C₁-C₆-alkyl-substituted nitrogen;
- R¹ is halogen, cyano, nitro or trifluoromethyl;
- R² is hydrogen or halogen;
- R³ is hydrogen, nitro, C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₃-C₈-cycloalkyl, C₃-C₈-cycloalkylcarbonyl, cyano-C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, formyl, C₁-C₆-alkano-nyl, C₁-C₆-alkoxycarbonyl, C₁-C₆-haloalkylcarbonyl, C₁-C₆-alkylcarbonyl-C₁-C₆-alkyl, C₁-C₆-alkoxycarbonyl-C₁-C₆-alkyl; a group -N(R²⁰)R²¹, where R²⁰ and R²¹ have one of the meanings of R¹⁵ and R¹⁶; phenyl or phenyl-C₁-C₆-alkyl, where each phenyl ring [may carry] is unsubstituted or carries from one to three of the following radicals: cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbo-nyl;
- R⁴ is hydrogen, cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₈-cycloalkyl, C₁-C₆-haloalkyl, C₁-C₆-hydroxyalkyl, cyano-C₁-C₆-alkyl, C₁-C₆-alkoxy, C₁-C₆-alkylthio, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-alkylthio-C₁-C₆-alkyl or phenyl which ~~[may carry]~~ is unsubstituted or carries from one to three of the following radicals: cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl;
- R⁵ is hydrogen, cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₇-cycloalkyl, C₁-C₆-haloalkyl, C₁-C₆-hydroxyalkyl, cyano-C₁-C₆-alkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-alkylthio-C₁-C₆-alkyl, formyl, C₁-C₆-alkylcarbonyl, C₁-C₆-haloalkylcarbonyl, C₁-C₆-alkoxycarbonyl, C₁-C₆-alkoxy-carbonyl-C₂-C₆-alkenyl, -N(R²²)R²³, where R²² and R²³ have one of the meanings of R¹⁵ and R¹⁶, or

phenyl which ~~may carry~~ is unsubstituted or carries from one to three of the following radicals: cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl, or

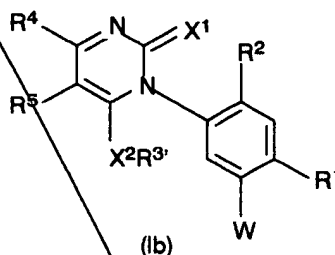
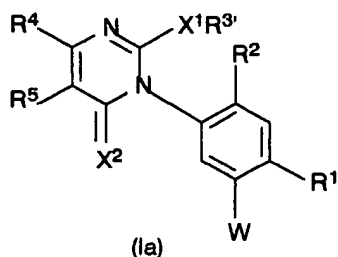
R⁴ and R⁵ together form a saturated or unsaturated 3-membered or 4-membered carbon chain which ~~may contain~~ optionally contains from one to three of the following hetero atoms: 1 or 2 oxygen atoms, 1 or 2 sulfur atoms and from 1 to 3 nitrogen atoms, and the chain ~~may furthermore carry~~ is unsubstituted or carries from one to three of the following radicals: cyano, nitro, amino, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-alkoxy, C₁-C₆-alkylthio and C₁-C₆-alkoxycarbonyl;

with the proviso that R⁴ ~~may~~ is not ~~be~~ trifluoromethyl ~~at the same time as~~ when R⁵ is hydrogen ~~when~~ and W is -CH=CH-CO-R¹⁰ where R¹⁰ is C₁-C₆-alkoxy or C₃-C₇-cycloalkoxy, and

with the proviso that R⁹ is halogen when R⁴ and R⁵ are ~~not~~ simultaneously hydrogen ~~when~~ and W is CH(R⁸)-CH(R⁹)-CO-R¹⁰ ~~and R⁹ is not halogen~~,

~~and the salts and enol ethers~~ or a salt or an enol form of ~~these compounds~~ the compound of formula I in which R³ is hydrogen.

2. (amended) ~~Compounds of~~ An enol ether of the compound of formula I defined in claim 1 ~~represented by the general~~ formula Ia or formula Ib



~~where the variables R¹, R², R⁴, R⁵, X¹, X² and W have the meanings stated in claim 1 and~~ wherein R^{3'} is ~~one of the following groups:~~ C₁-C₆-alkyl, C₃-C₆-alkenyl or C₃-C₆-alkynyl,

with the proviso that R⁴ ~~may~~ is not ~~be~~ trifluoromethyl ~~at the same time as~~ when R⁵ is hydrogen ~~when~~ and W is -CH=CH-CO-R¹⁰ where R¹⁰ is C₁-C₆-alkoxy or C₃-C₆-cycloalkoxy.

3. (amended) ~~A~~ The compound ~~as claimed~~ of formula I defined in claim 1 ~~or~~ ~~2~~ its salt or enol form, wherein W is [-C(R⁸)=X⁵, -C(R⁸)(X³R⁶)(X⁴R⁷),] -C(R⁸)=C(R⁹)-CO-R¹⁰ or -CH(R⁸)-CH(R⁹)-CO-R¹⁰.

4. (amended) ~~{A}~~ The compound ~~{as claimed}~~ of formula I defined in claim 1 ~~{or 2}~~, wherein R³ is C₁-C₆-alkyl.
5. (amended) ~~{A}~~ The compound ~~{as claimed}~~ of formula I defined in claim 1 ~~{or 2}~~ its salt or enol form, wherein R² is hydrogen or fluorine.
6. (amended) ~~{A}~~ The compound ~~{as claimed}~~ of formula I defined in claim 1 ~~{or 2}~~ its salt or enol form, wherein R¹ is chlorine or bromine.
7. (amended) ~~{A}~~ The compound ~~{as claimed}~~ of formula I defined in claim 1 ~~{or 2}~~ its salt or enol form, wherein R⁴ is C₁-C₆-haloalkyl.

Cancel Claims 8 to 11. Amend Claims 12 to 18 to read as follows:

12. (amended) A ~~{herbicide containing}~~ herbicidal composition comprising an inert liquid or solid carrier and ~~{a herbicidal}~~ an effective amount of at least one ~~{substituted}~~ 3-phenyluracil of ~~{the}~~ formula I ~~{as claimed}~~ defined in claim 1, ~~{or of the formula Ia or Ib as claimed in claim 2}~~ or ~~{a}~~ the salt or ~~{an}~~ the enol ~~{ether}~~ form of ~~{those compounds}~~ the compound of formula I in which R³ is hydrogen.
13. (amended) A method for controlling undesirable plant growth, wherein ~~{a herbicidal}~~ an effective amount of ~~{a substituted}~~ the 3-phenyluracil of ~~{the}~~ formula I ~~{as claimed}~~ defined in claim 1, ~~{or of the formula Ia or Ib as claimed in claim 2}~~ or ~~{a}~~ the salt or ~~{an}~~ the enol ~~{ether}~~ form of ~~{those compounds}~~ the compound of formula I in which R³ is hydrogen, is allowed to act on plants, on their habitat or on seed.
14. (amended) [An agent] A composition for the desiccation ~~{and}~~ or defoliation of plants, ~~{containing, in addition to}~~ comprising conventional additives, ~~{and an effective amount, having a defoliant or desiccant effect,}~~ of at least one ~~{substituted}~~ 3-phenyluracil of ~~{the}~~ formula I ~~{as claimed}~~ defined in claim 1, ~~{or of the formula Ia or Ib as claimed in claim 2}~~ or ~~{a}~~ the salt or ~~{an}~~ the enol ~~{ether}~~ form of ~~{those compounds}~~ the compound of formula I in which R³ is hydrogen.

15. (amended) A method for the desiccation ~~{and}~~ or defoliation of plants, wherein an effective amount, ~~{having a defoliant and/or desiccant effect,}~~

contd.

A2
Sub
B3

~~icant effect,~~ of ~~a substituted~~ the 3-phenyluracil of formula I ~~as claimed~~ defined in claim 1 ~~for Ia or Ib as claimed in claim 2~~ is allowed to act on the plants.

18. (amended) ~~A~~ The method ~~as claimed in~~ of claim 1⁹, wherein cotton is defoliated.

Cont
A2

17. (amended) A ~~pesticide containing~~ pesticidal composition comprising an inert ~~carrier~~ carrier and ~~a pesticidal~~ an effective amount of at least one ~~substituted~~ 3-phenyluracil of ~~the~~ formula I ~~as claimed~~ defined in claim 1, ~~for of the formula Ia or Ib as claimed in claim 2~~ or ~~of a~~ the salt or ~~of an~~ the enol ~~ether~~ form of ~~these compounds~~ the compound of formula I in which R³ is hydrogen.

18. (amended) A method for controlling pests, wherein ~~a pesticidal~~ an effective amount of ~~a substituted~~ the 3-phenyluracil of ~~the~~ formula I ~~as claimed~~ defined in claim 1, ~~for of the formula Ia or Ib as claimed in claim 2~~ or ~~of a~~ the salt or ~~of an~~ the enol ~~ether of these compounds~~ form of the compound of formula I in which R³ is hydrogen, is allowed to act on pests or their habitat.

Cancel Claim 19. Enter new Claims 20 to 43 as follows:

20. (new) The compound of formula I defined in claim 1, wherein R³ is hydrogen, C₁-C₆-alkyl or C₁-C₆-haloalkyl.

21. (new) The compound of formula I defined in claim 1, wherein R⁴ is C₁-C₆-alkyl or C₁-C₆-haloalkyl, or the salt or enol form thereof when R³ is hydrogen.

22. (new) The compound of formula I defined in claim 1, wherein R⁵ is hydrogen, halogen or C₁-C₆-alkyl, or the salt or enol form thereof when R³ is hydrogen.

23. (new) The compound of formula I defined in claim 1, wherein R⁸ is hydrogen, or the salt or enol form thereof when R³ is hydrogen.

24. (new) The compound of formula I defined in claim 1, wherein R⁹ is halogen or C₁-C₆-alkyl, or the salt or enol form thereof when R³ is hydrogen.

contd.
b3

25. (new) The compound of formula I defined in claim 1, wherein R^{10} is $-OR^{17}$ or $-N(R^{15})R^{16}$, or the salt or enol form thereof when R^3 is hydrogen.

26. (new) The enol ether defined in claim 2, wherein W is $-C(R^8)=C(R^9)-CO-R^{10}$ or $-CH(R^8)-CH(R^9)-CO-R^{10}$.

Sub B5 27. (new) The enol ether defined in claim 2, wherein R^3 is C_1-C_6 -alkyl.

28. (new) The enol ether defined in claim 2, wherein R^2 is hydrogen or fluorine.

29. (new) The enol ether defined in claim 2, wherein R^1 is chlorine or bromine.

30. (new) The enol ether defined in claim 2, wherein R^4 is C_1-C_6 -haloalkyl.

31. (new) The enol ether defined in claim 2, wherein R^4 is C_1-C_6 -alkyl or C_1-C_6 -haloalkyl.

32. (new) The enol ether defined in claim 2, wherein R^5 is hydrogen, halogen or C_1-C_6 -alkyl.

33. (new) The enol ether defined in claim 2, wherein R^8 is hydrogen.

34. (new) The enol ether defined in claim 2, wherein R^9 is halogen or C_1-C_6 -alkyl.

35. (new) The enol ether defined in claim 2, wherein R^{10} is $-OR^{17}$ or $-N(R^{15})R^{16}$.

36. (new) A herbicidal composition comprising an inert liquid or solid carrier and an effective amount of at least one enol ether of formula Ia or Ib defined in claim 2.

37. (new) A method for controlling undesirable plant growth, wherein an effective amount of the enol ether of formula Ia or Ib defined in claim 2 is allowed to act on plants, on their habitat or on seed.

38. (new) A composition for the desiccation or defoliation of plants comprising conventional additives and an effective amount of at least one enol ether of formula Ia or Ib defined in claim 2.

contd. 19.
a3

39. (new) A method for the desiccation or defoliation of plants, wherein an effective amount of the enol ether of formula Ia or Ib defined in claim 2 is allowed to act on the plants.

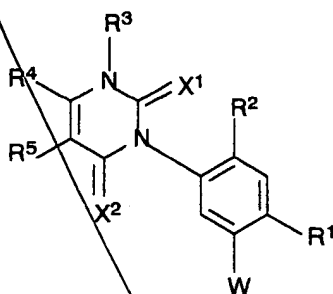
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40. (new) The method of claim 39, wherein cotton is defoliated.

41. (new) A pesticidal composition comprising an inert carrier and an effective amount of at least one enol ether of formula Ia or Ib defined in claim 2.

42. (new) A method for controlling pests, wherein an effective amount of the enol ether of formula Ia or Ib defined in claim 2 is allowed to act on pests or their habitat.

43. (new) A 3-phenyluracil of formula I



(I)

where

X¹ and X² are each oxygen or sulfur;

W is -C(R⁸)=C(R⁹)-CN, -C(R⁸)=C(R⁹)-CO-R¹⁰, -CH(R⁸)-CH(R⁹)-CO-R¹⁰, -C(R⁸)=C(R⁹)-CH₂-CO-R¹⁰, -C(R⁸)=C(R⁹)-C(R¹¹)=C(R¹²)-CO-R¹⁰ or -C(R⁸)=C(R⁹)-CH₂-CH(R¹³)-CO-R¹⁰ where

R⁸ is hydrogen, cyano, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₁-C₆-haloalkyl, C₃-C₇-cycloalkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl or C₁-C₆-alkoxycarbonyl;

R⁹ and R¹² are each hydrogen, cyano, halogen, C₁-C₆-alkyl, C₁-C₆-alkoxy, halo-C₁-C₆-alkyl, C₁-C₆-alkylcarbonyl or C₁-C₆-alkoxycarbonyl;

R¹⁰ is hydrogen, O-R¹⁷, S-R¹⁷, C₁-C₆-alkyl which may furthermore carry one or two C₁-C₆-alkoxy substituents, or C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₁-C₆-haloalkyl, C₃-C₆-cycloalkyl, C₁-C₆-alkylthio-C₁-C₆-alkyl, C₁-C₆-alkyliminoxy, -N(R¹⁵)R¹⁶ or

phenyl which is unsubstituted or carries from one to three of the following substituents: cyano, nitro, halo-

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Cont

gen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl,

R¹⁵ and R¹⁶ are each hydrogen, C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₃-C₆-cycloalkyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-alkylcarbonyl, C₁-C₆-alkoxycarbonyl, C₁-C₆-alkoxycarbonyl-C₁-C₆-alkyl or C₁-C₆-alkoxycarbonyl-C₂-C₆-alkenyl, where the alkenyl chain is unsubstituted or carries from one to three of the following radicals: halogen and cyano, or phenyl which is unsubstituted or carries from one to three of the following substituents: cyano, nitro, halogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₃-C₆-alkenyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl, or

R¹⁵ and R¹⁶ together with the common nitrogen atom form a saturated or unsaturated 4-membered to 7-membered heterocyclic structure, where one ring member is optionally replaced by -O-, -S-, -N=, -NH- or -N(C₁-C₆-alkyl)-;

R¹⁷ is hydrogen, C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₃-C₇-cycloalkyl, C₁-C₆-haloalkyl, C₃-C₆-haloalkenyl, cyano-C₁-C₆-alkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-alkylthio-C₁-C₆-alkyl, C₁-C₆-alkyloximino-C₁-C₆-alkyl, C₁-C₆-alkylcarbonyl, C₁-C₆-alkoxycarbonyl, C₁-C₆-alkylcarbonyl-C₁-C₆-alkyl, C₁-C₆-alkoxycarbonyl-C₁-C₆-alkyl,

phenyl or phenyl-C₁-C₆-alkyl, where each of the phenyl radicals is unsubstituted or carries from one to three of the following substituents: cyano, nitro, halogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₃-C₆-alkenyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl;

R¹¹ is hydrogen, cyano, halogen, C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-alkylcarbonyl, C₁-C₆-alkoxycarbonyl,

-NR¹⁸R¹⁹, where R¹⁸ and R¹⁹ have the same meanings as R¹⁵ and R¹⁶, or

phenyl which is unsubstituted or carries from one to three of the following substituents: cyano, nitro, halogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₃-C₆-alkenyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl;

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R¹³ is hydrogen, cyano, C₁-C₆-alkyl or C₁-C₆-alkoxycarbonyl;
or

R⁹ and R¹⁰ together form a two-membered to five-membered carbon chain in which one carbon atom may be replaced with oxygen, sulfur or unsubstituted or C₁-C₆-alkyl-substituted nitrogen;

R¹ is halogen, cyano, nitro or trifluoromethyl;

R² is hydrogen or halogen;

R³ is hydrogen, nitro, C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-alkynyl, C₃-C₈-cycloalkyl, C₃-C₈-cycloalkylcarbonyl, cyano-C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, formyl, C₁-C₆-alkanoyl, C₁-C₆-alkoxycarbonyl, C₁-C₆-haloalkylcarbonyl, C₁-C₆-alkylcarbonyl-C₁-C₆-alkyl, C₁-C₆-alkoxycarbonyl-C₁-C₆-alkyl;
a group -N(R²⁰)R²¹, where R²⁰ and R²¹ have one of the meanings of R¹⁵ and R¹⁶;

phenyl or phenyl-C₁-C₆-alkyl, where each phenyl ring is unsubstituted or carries from one to three of the following radicals: cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl;

R⁴ is hydrogen, cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₈-cycloalkyl, C₁-C₆-haloalkyl, C₁-C₆-hydroxyalkyl, cyano-C₁-C₆-alkyl, C₁-C₆-alkoxy, C₁-C₆-alkylthio, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-alkylthio-C₁-C₆-alkyl or phenyl which is unsubstituted or carries from one to three of the following radicals: cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl;

R⁵ is hydrogen, cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₇-cycloalkyl, C₁-C₆-haloalkyl, C₁-C₆-hydroxyalkyl, cyano-C₁-C₆-alkyl, C₁-C₆-alkoxy-C₁-C₆-alkyl, C₁-C₆-alkylthio-C₁-C₆-alkyl, formyl, C₁-C₆-alkylcarbonyl, C₁-C₆-haloalkylcarbonyl, C₁-C₆-alkoxycarbonyl, C₁-C₆-alkoxycarbonyl-C₂-C₆-alkenyl,

-N(R²²)R²³, where R²² and R²³ have one of the meanings of R¹⁵ and R¹⁶, or

phenyl which is unsubstituted or carries from one to three of the following radicals: cyano, nitro, halogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy and C₁-C₆-alkoxycarbonyl, or